## Appendix E - MOA

## Minute of Angle (or Minute of Arc)

It will be necessary to know the value of each "click" of your sight adjustment. Most sights use either:

$$
\begin{array}{ll}
\text { 1/8 MOA per click } & 1 / 2 \text { MOA per click } \\
1 / 4 \text { MOA per click } & 1 \text { MOA per click }
\end{array}
$$

Use the adjacent tables, for scopes and aperture sights to determine correct adjustments at various given target distances.
A) The number of clicks needed to move the impact one inch
B) The amount of change, in inches, for each click;
C) The area a red dot or reflex sight masks at a given distance
D) Converts the physical distance off target center, in inches, to the MOA at a given yardage

## Using Our MOA Correction Sight-In Target

You can use this table information in conjunction with "Firearm Fundamental's Copyrighted MOA Correction sight-in target.

To use the MOA Correction sight-in target, set the target any distance from 25 yards to 1,000 yards from your shooting bench.
After a three or five round volley, measure the distance between the bullet impact and the center of the target.
The table will convert the distance off target center, in inches, to the relative MOA for that distance. The adjacent table will then convert the resulting MOA into the number of clicks needed, for your sight, to impact the target center. (Also see "Appendix F - MOA Correction Target" on page 291)

Our MOA Correction sight-in target and complete instructions are available FREE from our web site:
The Number of Clicks Required to Move the Impact One Inch

| \# Clicks @ | 10 yds | 25 yds | 50 yds | 100 yds | 200 yds | 300 yds | 400 yds | 500 yds | 600 yds | 700 yds | 800 yds | 900 yds | 1,000 yds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1 / 8 \mathrm{MOA}$ | 80 | 32 clicks | 16 clicks | 8 clicks | 4 clic | 2.7 click | 2 click | 1.6 clicks | 1.3 clicks | 1.1 clicks | 1 clicks | 9 clicks | clicks |
| $1 / 4 \mathrm{MOA}$ | 40 clicks | 16 clicks | 8 clicks | 4 clicks | 2 clicks | 1.3 clicks | 1 clicks | 8 clicks | 7 clicks | 6 clicks | 5 clicks | 4 clicks | licks |
| $1 / 2$ | lic | 8 clicks | 4 click | cli | 1 clicks | . 7 clicks | . 5 clicks | . 4 clicks | . 3 clicks | . 3 clicks | . 3 clicks | . 2 clicks | 2 clicks |
| 1 M | 10 cli | 4 | 2 clicks | 1 clicks | 5 click | 3 clicks | 3 clicks | 2 clicks | 2 clicks | 1 clicks | clicks | clic | 1 clicks |
| The Amount of Change for Each Click, in Inches |  |  |  |  |  |  |  |  |  |  |  |  |  |
| One Click = | 10 yds | 25 yds | 50 yds | 100 yds | 200 yds | 300 yds | 400 yds | 500 yds | 600 yds | 700 yds | 800 yds | 900 yds | 1,000 yds |
| 1/8 | . 01 | . 03 | . 06 in | . 125 in | . 25 in | . 375 in | . 50 in | . 625 in | in | . 875 in | 1 in | 1.1 | 1.25 in |
| $1 / 4$ MOA | . 03 in | . 06 in | . 125 in | . 25 in | . 50 in | . 75 in | 1 in | 1.25 in | 1.50 in | 1.75 in | 2 in | 2.25 in | 2.50 in |
| $1 / 2$ MOA <br> 1 MOA | $\begin{aligned} & .05 \mathrm{in} \\ & .10 \mathrm{in} \\ & \hline \end{aligned}$ | $\begin{array}{r} .125 \mathrm{in} \\ .25 \mathrm{in} \end{array}$ | $\begin{aligned} & .25 \mathrm{in} \\ & .50 \mathrm{in} \\ & \hline \end{aligned}$ | $\begin{array}{r} .50 \mathrm{in} \\ 1 \mathrm{in} \end{array}$ | $\begin{aligned} & 1 \text { in } \\ & 2 \text { in } \end{aligned}$ | $\begin{array}{r} 1.50 \mathrm{in} \\ 3 \mathrm{in} \end{array}$ | $\begin{aligned} & 2 \mathrm{in} \\ & 4 \text { in } \end{aligned}$ | $\begin{array}{r} 2.50 \mathrm{in} \\ 5 \mathrm{in} \end{array}$ | $\begin{aligned} & 3 \text { in } \\ & 6 \text { in } \end{aligned}$ | $\begin{array}{r} 3.50 \text { in } \\ 7 \text { in } \end{array}$ | $\begin{aligned} & 4 \text { in } \\ & 8 \text { in } \end{aligned}$ | $\begin{array}{r} 4.50 \text { in } \\ 9 \text { in } \end{array}$ | 5 in 10 |

Reflex (Dot) Sight Target Coverage, in Inches

| 900 yds | $1,000 \mathrm{yds}$ |
| ---: | ---: |
| 18 in | 20 in | $\begin{array}{ll}18 \text { in } & 20 \text { in } \\ 27 \text { in } & 30 \text { in }\end{array}$



| 00 yds | $1,000 \mathrm{yds}$ |
| :--- | :--- |
| .01 MOA | .01 MOA | 0








| 00 yds | 600 yds |
| :---: | :---: |
| 10 in | 12 in |


| 18 in |
| :--- |
| 24 in |
| 30 in |
| 36 in |
| 42 in |
| 48 in |


The Distance Off Center Impact, in MOA
 . 00 MOA

